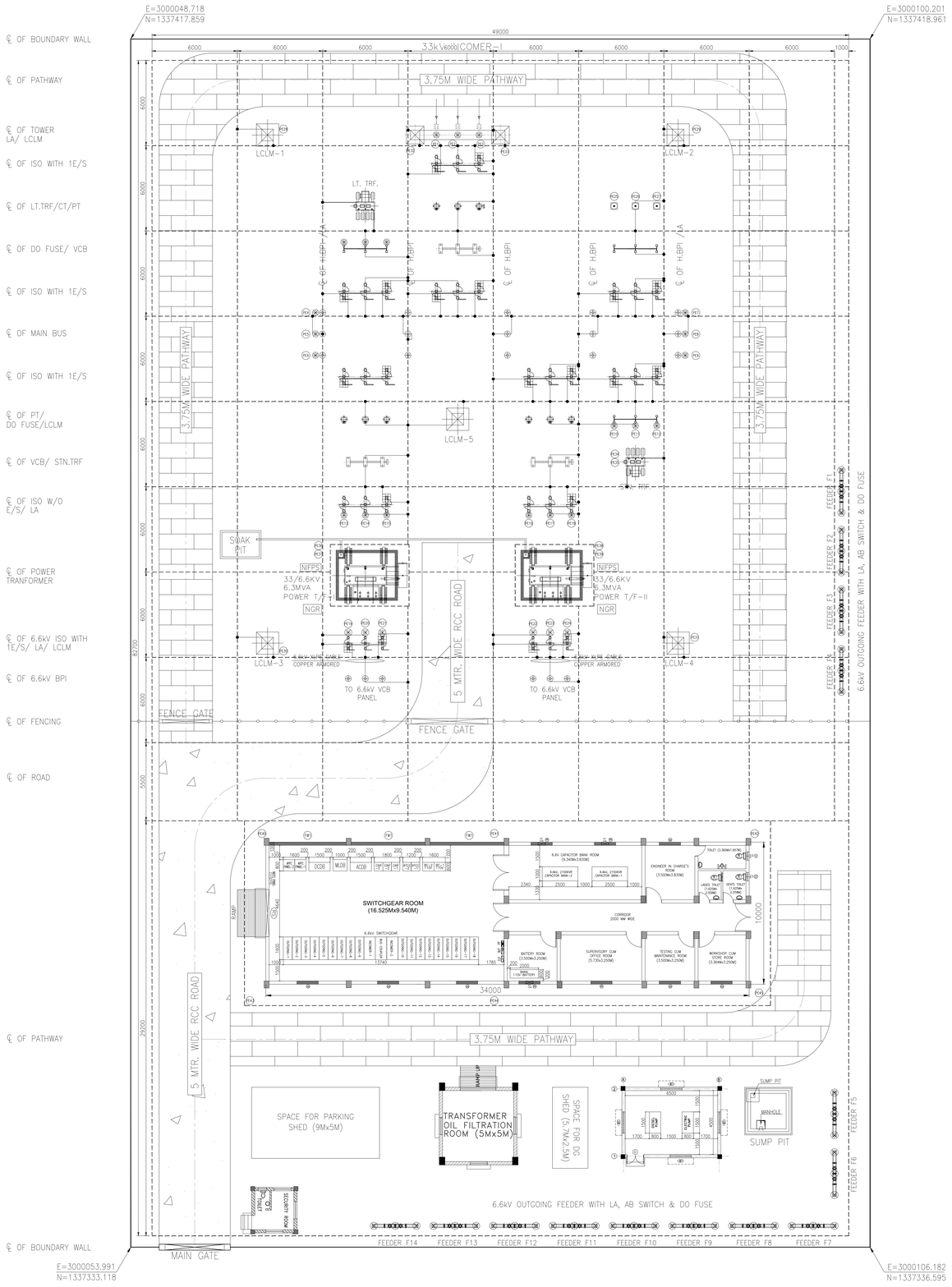


EARTHMAT BILL OF QUANTITY

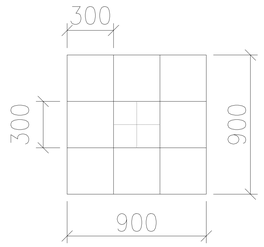
S.NO.	SYMBOL	DESCRIPTION	UNIT	ENGG. QUANTITY
1.	- - - - - - - -	65x8MM GI FLAT MAIN EARTHMAT	MTR	1300
2.	————	RISER (BELOW GROUND) 50x6MM GI FLAT	MTR	235
3.		50x6MM GI FLAT (ABOVE GROUND)	MTR	600
4.		25x8MM GI FLAT (FOR CABLE TRENCH, BMK, JB, PANELS, PYLON SUPPORT ETC.)	MTR	300
5.		65x8MM GI FLAT AUXILIARY EARTHMAT	NOS	20
			MTR	160
6.	(PE)	40MM DIA 3M LONG GS PIPE ELECTRODE (PE1 TO PE24) FOR LA	NOS	24
7.	(PE)	40MM DIA 3M LONG GS PIPE ELECTRODE (PE25 TO PE27) FOR PT	NOS	03
8.	(PE)	40MM DIA 3M LONG GS PIPE ELECTRODE (PE28 TO PE33) FOR TOWER WITH PEAK/ LCLM	NOS	06
9.	(PE)	40MM DIA 3M LONG GS PIPE ELECTRODE (PE36 TO PE39) FOR ICT	NOS	04
10.	(PE)	40MM DIA 3M LONG GS PIPE ELECTRODE (PE40 TO PE45) FOR CONTROL ROOM BUILDING CORNER	NOS	06
11.	(PE)	40MM DIA 3M LONG GS PIPE ELECTRODE (PE34 TO PE35) FOR STATION TRANSFORMER	NOS	02
12.		CLEAT FOR 50x6MM GI FLAT	NOS.	315

NOTES

1. THE EARTHING GRID SHALL BE MADE WITH 75x10MM GI FLAT.
2. EQUIPMENT SHALL BE CONNECTED TO VERTICAL & HORIZONTAL EARTHING CONDUCTOR OF MAIN EARTHMAT.
3. WHEREVER EARTHING CONDUCTOR CROSS CABLE TRENCHES, UNDER GROUND SERVICES DUCTS PIPES, TUNNELS, RAILWAY TRACKS ETC. IT SHALL BE LAID ATLEAST 300mm BELOW THEM AND SHALL BE RE-ROUTED IN CASE IT FOULS WITH EQUIPMENT/STRUCTURE FOUNDATION.
4. EARTHING CONDUCTORS CROSSING THE ROAD SHALL BE LAID AT 300mm BELOW THE ROAD OR AT GREATER DEPTH TO SUIT SITE CONDITION.
5. ALL EQUIPMENT & STRUCTURES SHALL BE GROUNDED AS PER TYPICAL EARTHING DRAWING FOR SWITCHYARD EQUIPMENT (REFERENCE DWG NO. THR054-NCL-33-BLO-SYD-EP-0001).
6. FOR RISER DETAILS OF EARTHING, WELDING AND JOINT DETAILS SHALL BE DONE AS PER TYPICAL EARTHING DRAWING FOR SWITCHYARD (REFERENCE DWG NO. THR054-NCL-33-BLO-SYD-EP-0001).
7. THE LOCATION OF EARTHING CONDUCTOR, EARTHPITS AND GROUND RODS ARE INDICATIVE AND CAN BE MODIFIED TO SUIT SITE CONDITION.
8. WHERE EARTHING CONDUCTOR FOUL WITH FOUNDATIONS SAME SHALL BE DIVERTED LOCALLY AS PER SITE CONDITION.
9. LOCATION OF AUXILIARY MAT SHALL MATCH THE POSITION OF OPERATING HANDLE OF MOM BOX. MINOR MODIFICATION AS PER ISOLATOR DRG. SHALL BE DONE AT SITE.
10. EARTHING OF FENCE SHALL BE DONE AS PER STANDARD EQUIPMENT EARTHING PHILOSOPHY.
11. EARTHING CONDUCTORS IN OUTDOOR AREAS SHALL BE BURIED APPROXIMATELY 600MM BELOW GROUND LEVEL UNLESS STATED OTHERWISE.

REFERENCE DWG NO.

THR058-WCL-33-DHK-SYD-GA-001: ELECTRICAL PLAN & SECTION LAYOUT FOR 33/6.6kV SUBSTATION AT DHANKASA



AUXILIARY EARTHMAT

REV	DESCRIPTION	PREP	CHKD.	APPD.	DATE
		SIGN.			
0	FIRST SUBMISSION	HN	SB	AK	07.08.2025

CLIENT	WESTERN COALFIELDS LIMITED
CONTRACTOR	M/S JAMEEL KHAN CONTRACTOR AND HAJRA ENTERPRICES JV.
CONSULTANT	THORES ENGINEERING SOLUTIONS
PROJECT	PLANNING, DESIGN, ENGINEERING, CONSTRUCTION,FABRICATION, SUPPLY, ERECTION, TRIAL RUN AND COMMISSIONING OF 2 NOS. 2X6.30 MVA, 33/6.6 KV DHANKASA SUBSTATION ON TURNKEY BASIS AT AMALGAMATED DHANKASA AMD JAMUINIA UNDER GROUND PROJECT, PENCH AREA,WCL
SUBSTATION	33/6.6 KV SUB-SATION AT DHANKASA
DRG. TITLE	EARTHING LAYOUT
DRG. NO.	THR058-WCL-33-DHK-SYD-GA-006
SCALE:	1:125 A0 SHEET 1 OF 1